

FIG. 1

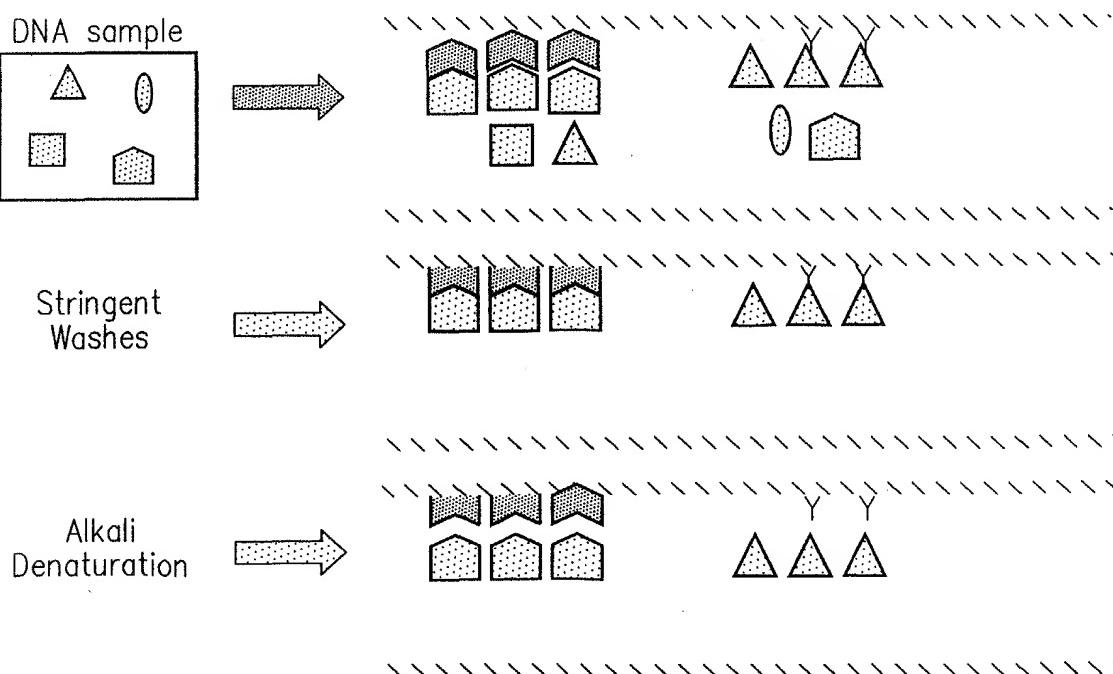


FIG. 2

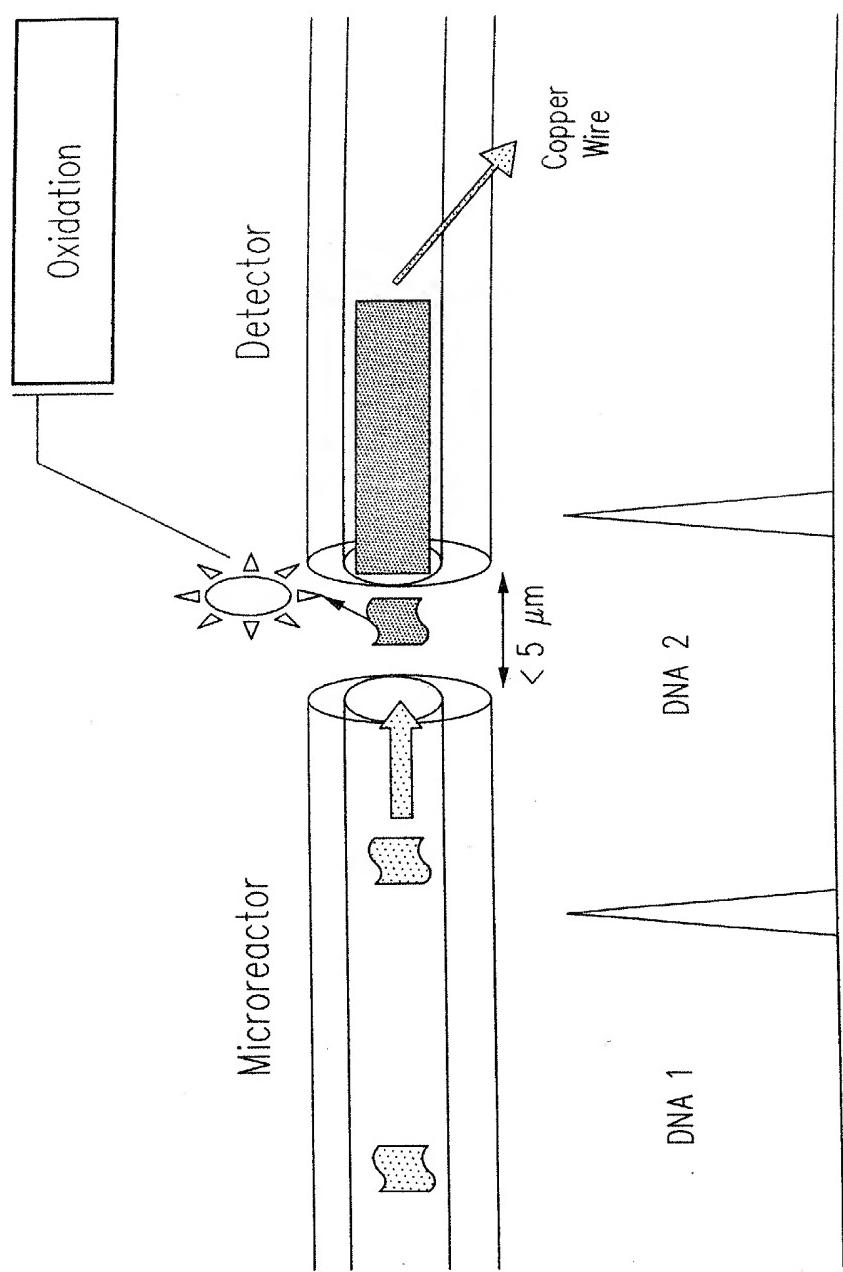
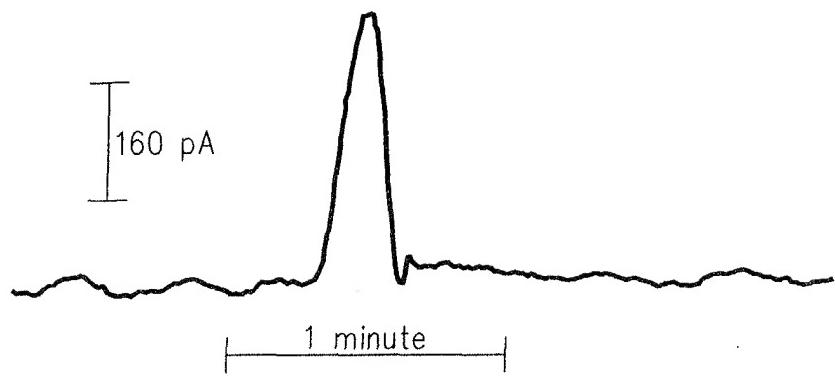


FIG. 3



Capillary DNA-biosensor with TB+HIV Probes Immobilized.
Length of each probe zone = 1 cm. Distance between zones = 7 inches
Elution of Target with TBE buffer, pH = 11, after 30 minute incubation
Detection: Sinusoidal voltammetry with 40 μ m Copper electrode
2 Hz, 0–700 mVp-p sine wave. Response shown at 5th Harmonic.

FIG. 4

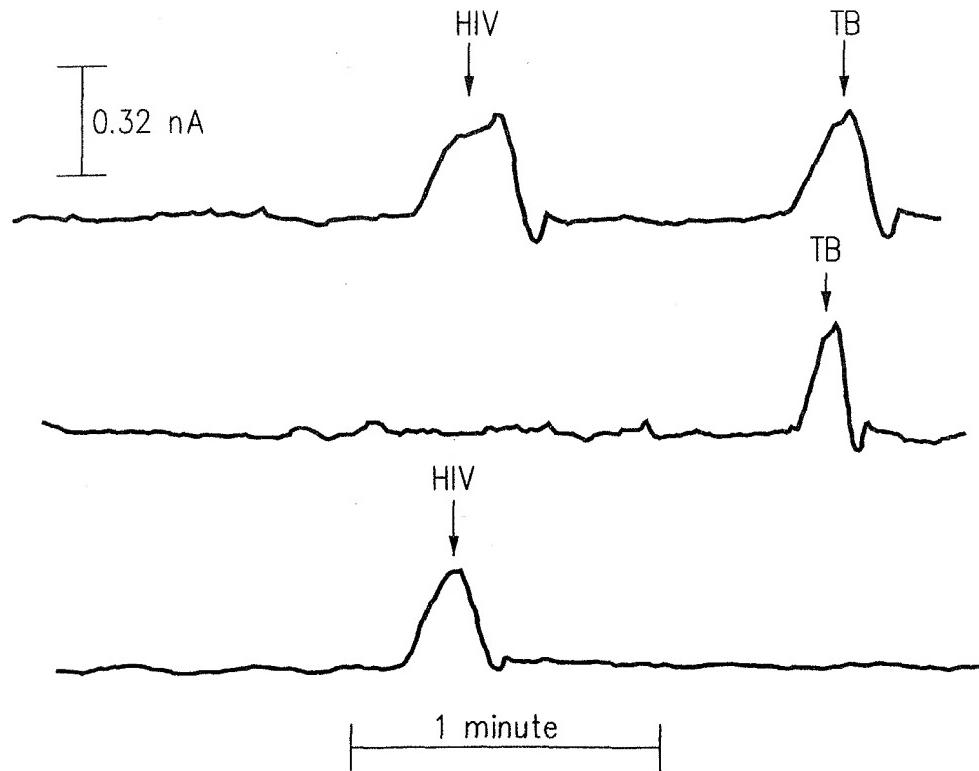


FIG. 5

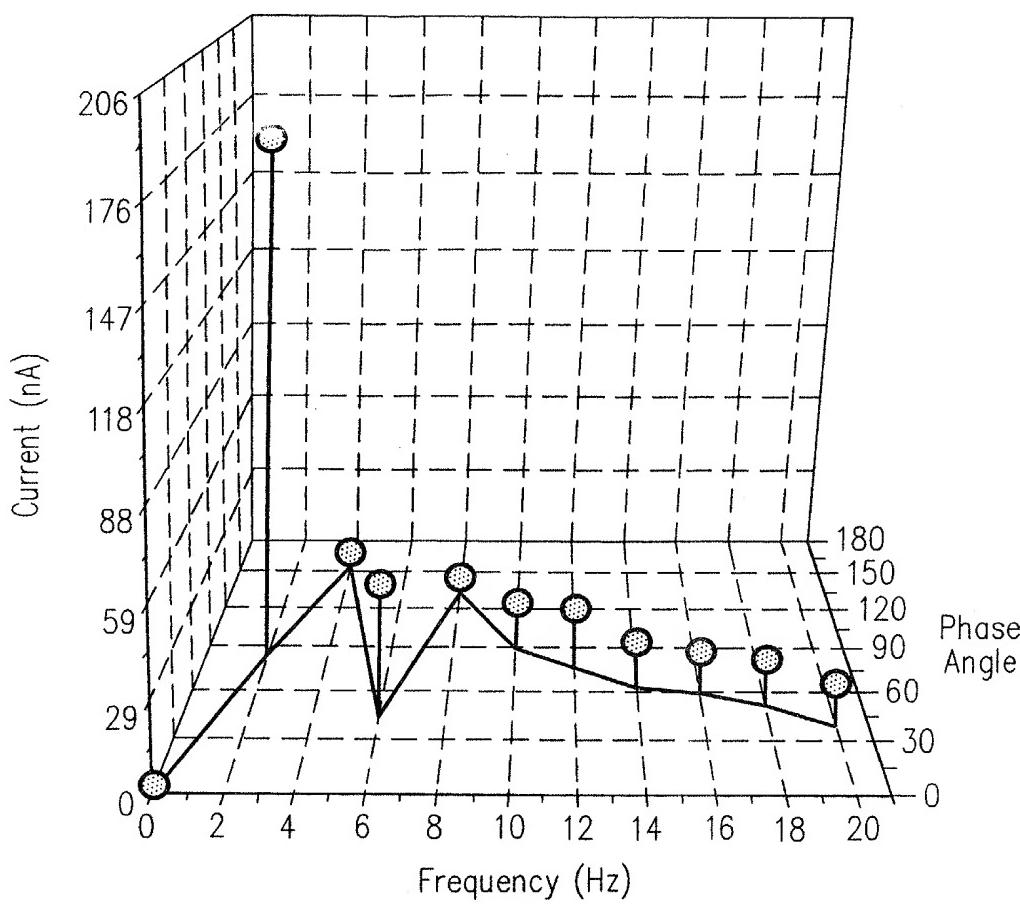


FIG. 6

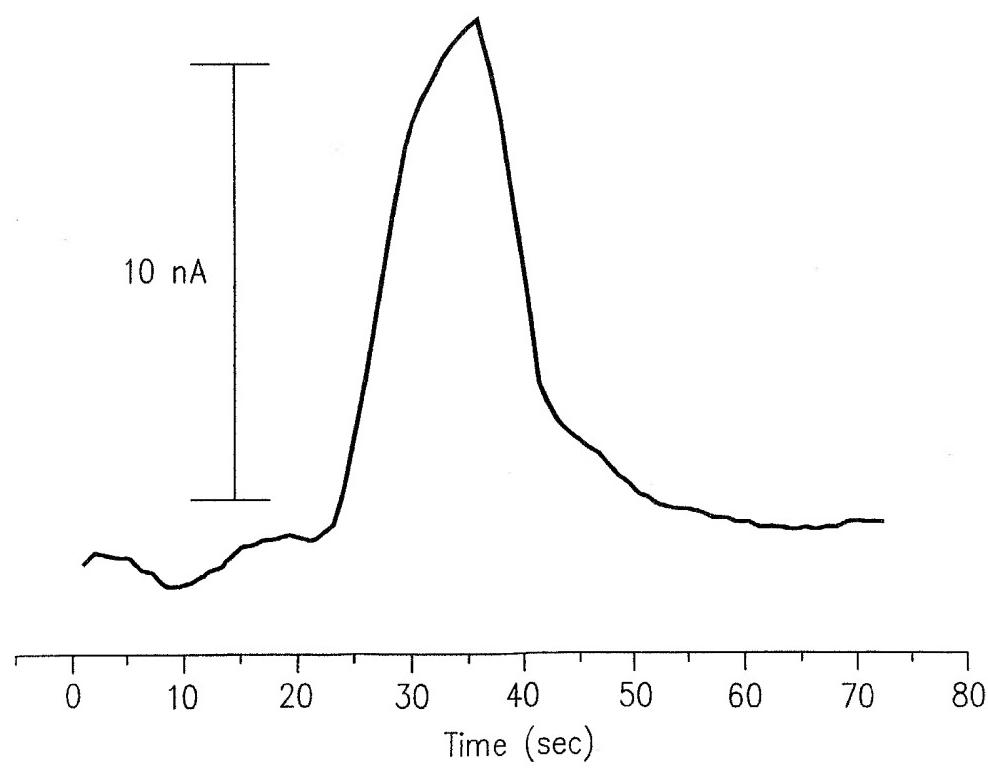


FIG. 7

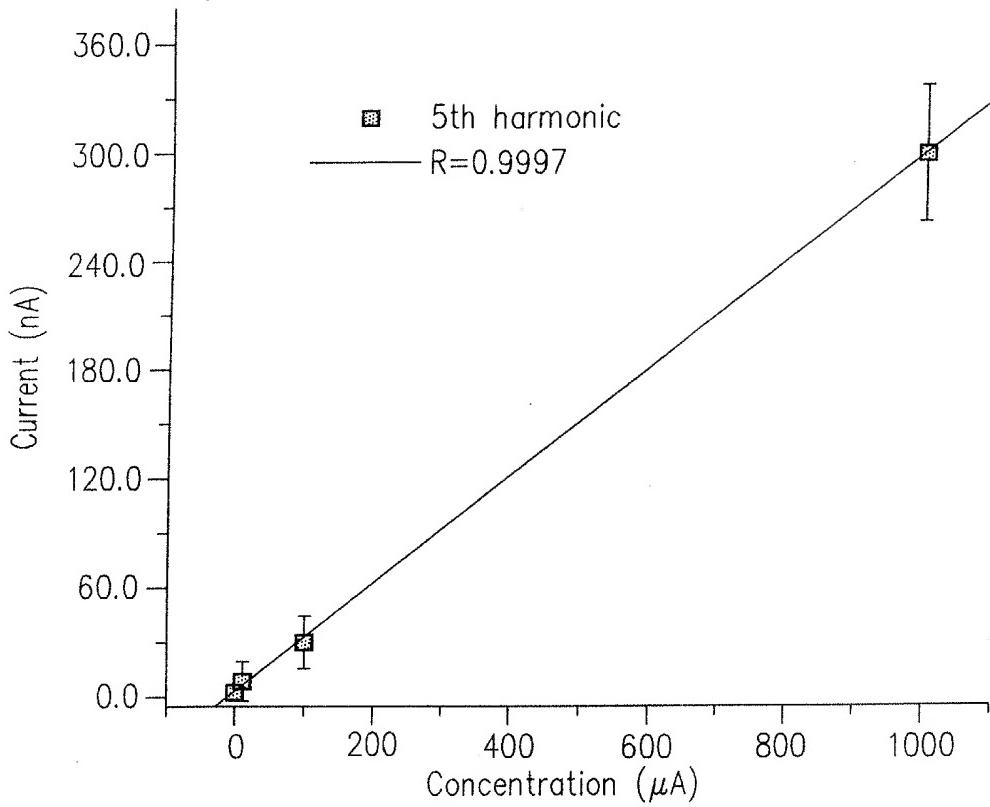


FIG. 8

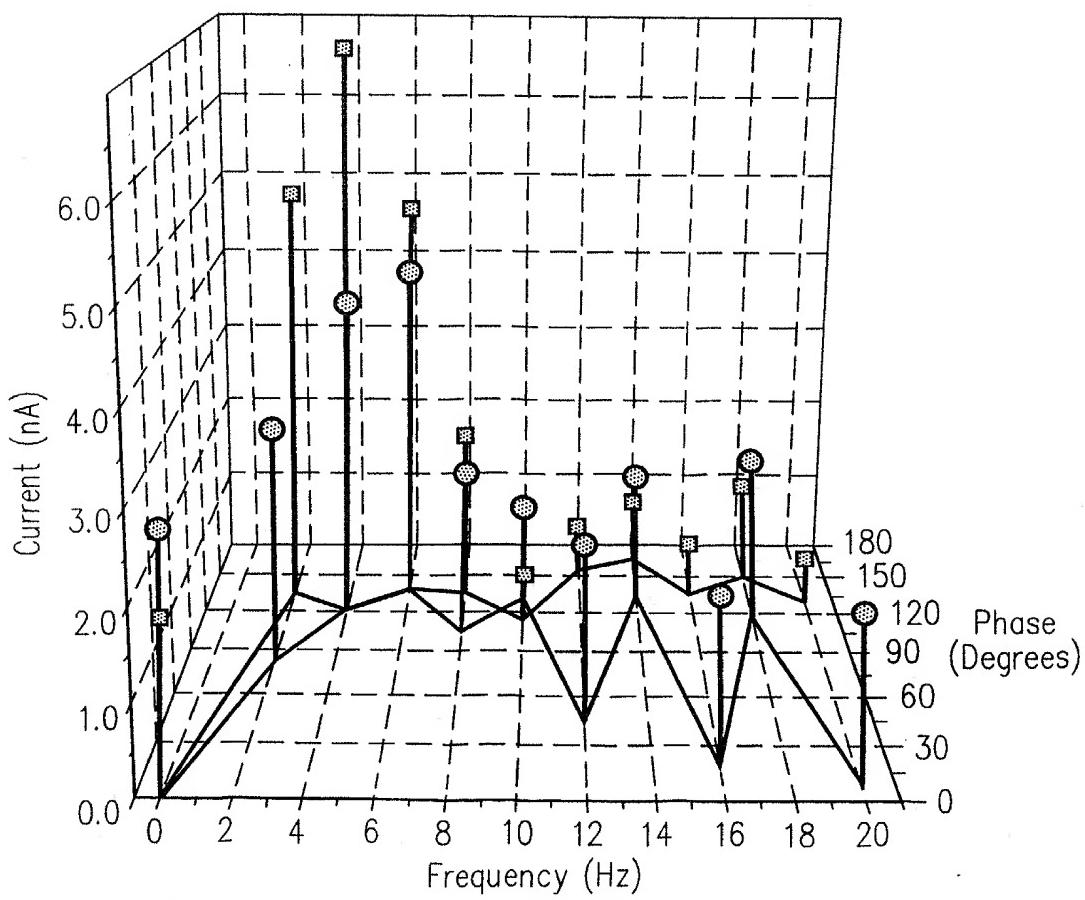


FIG. 9

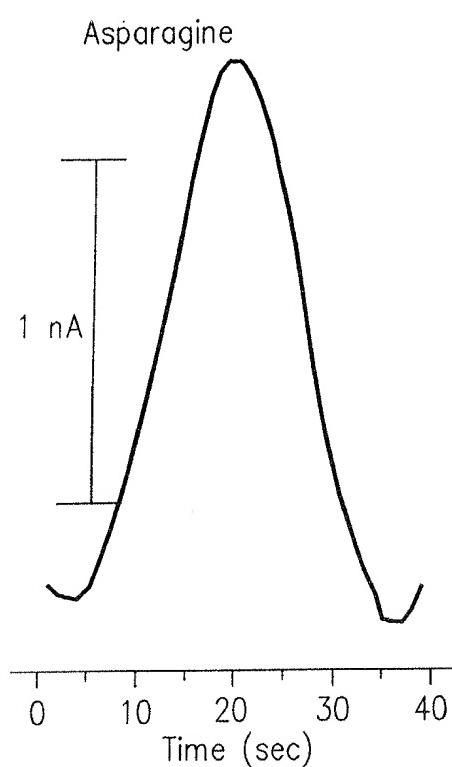


FIG. 10A

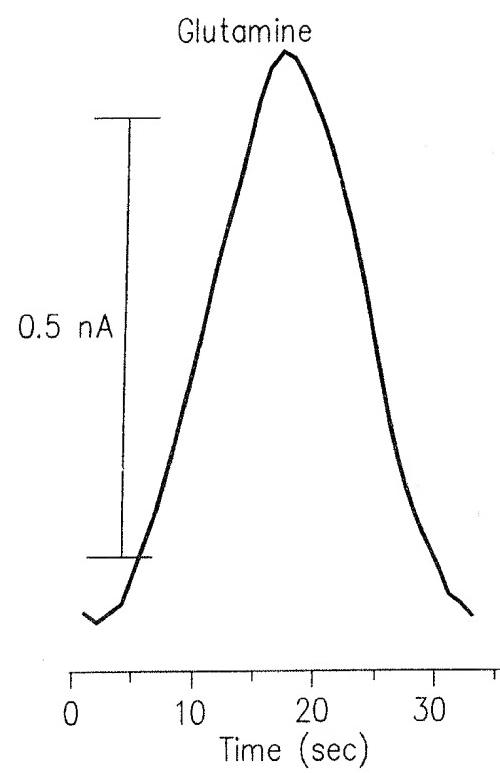


FIG. 10B

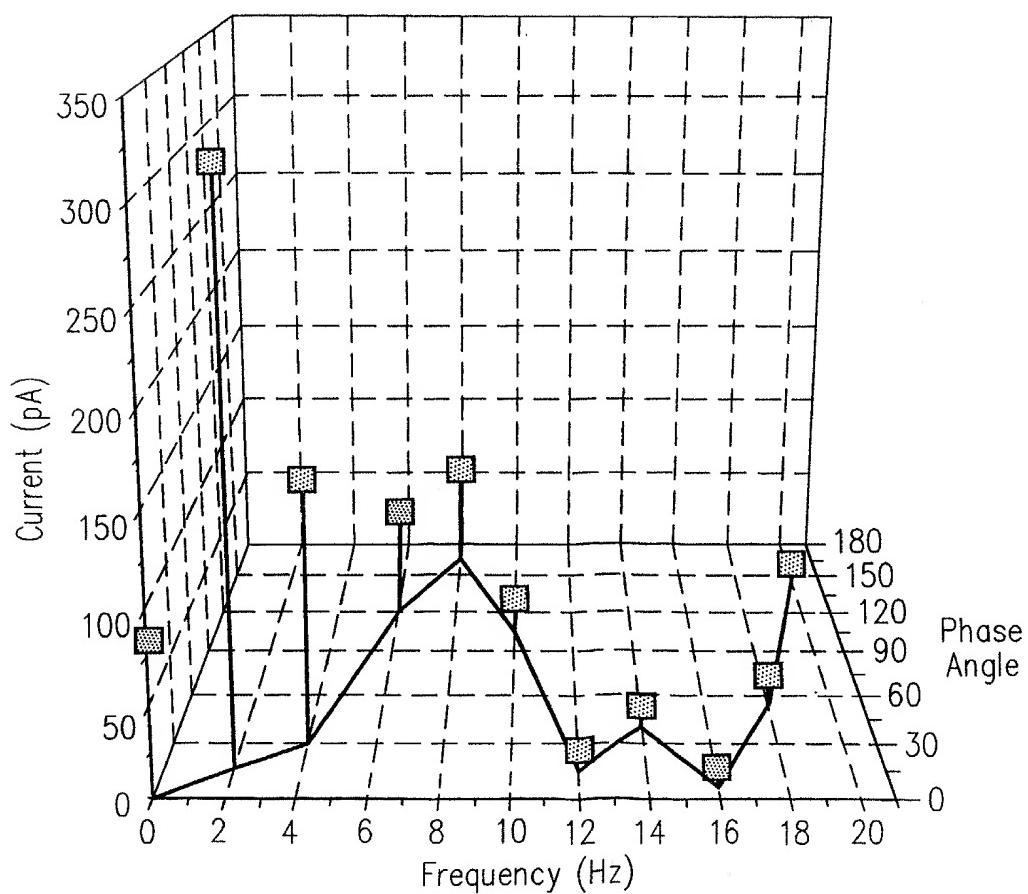


FIG. 11

56 pA

FIG. 12

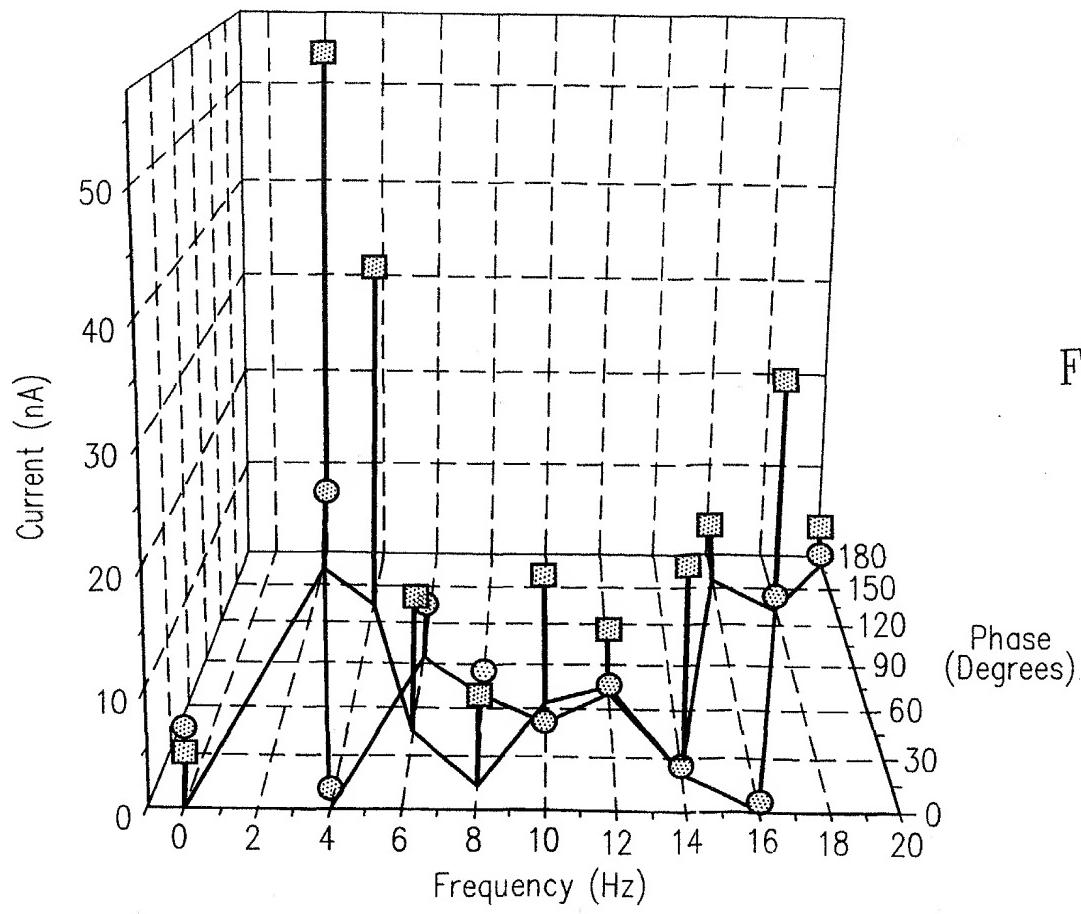
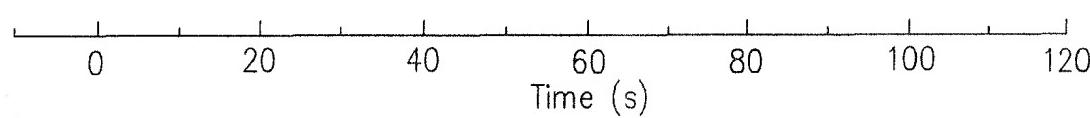


FIG. 13

FIG. 14A

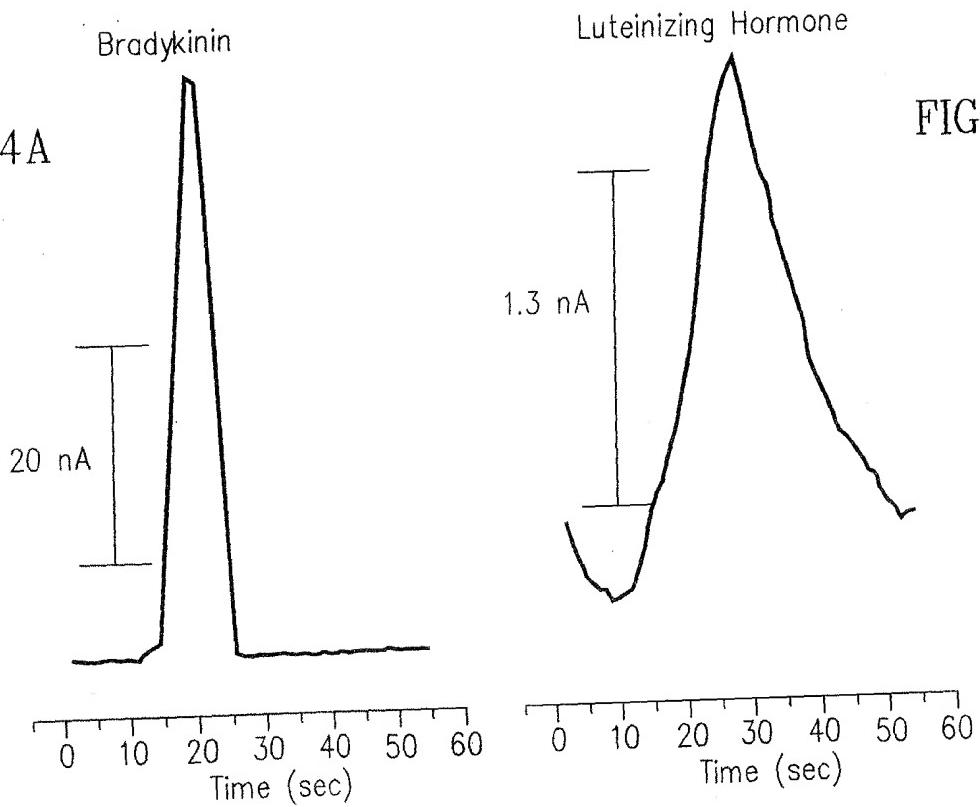
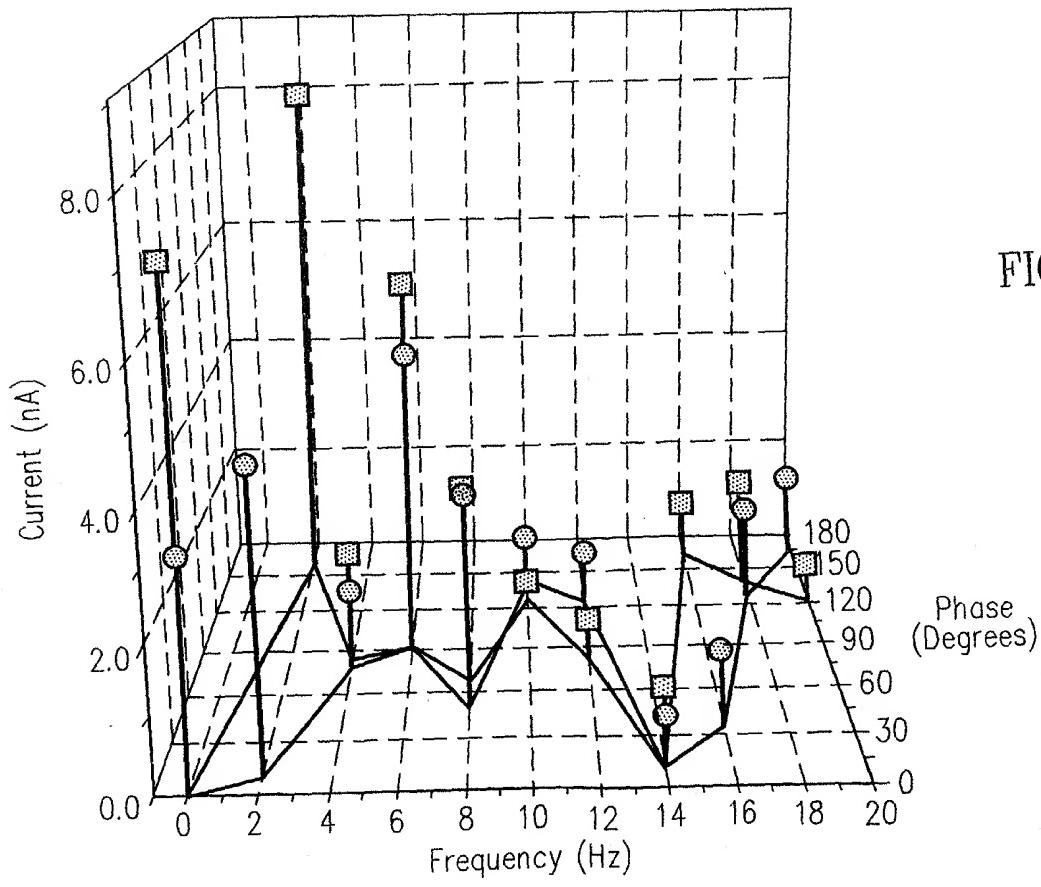


FIG. 14B



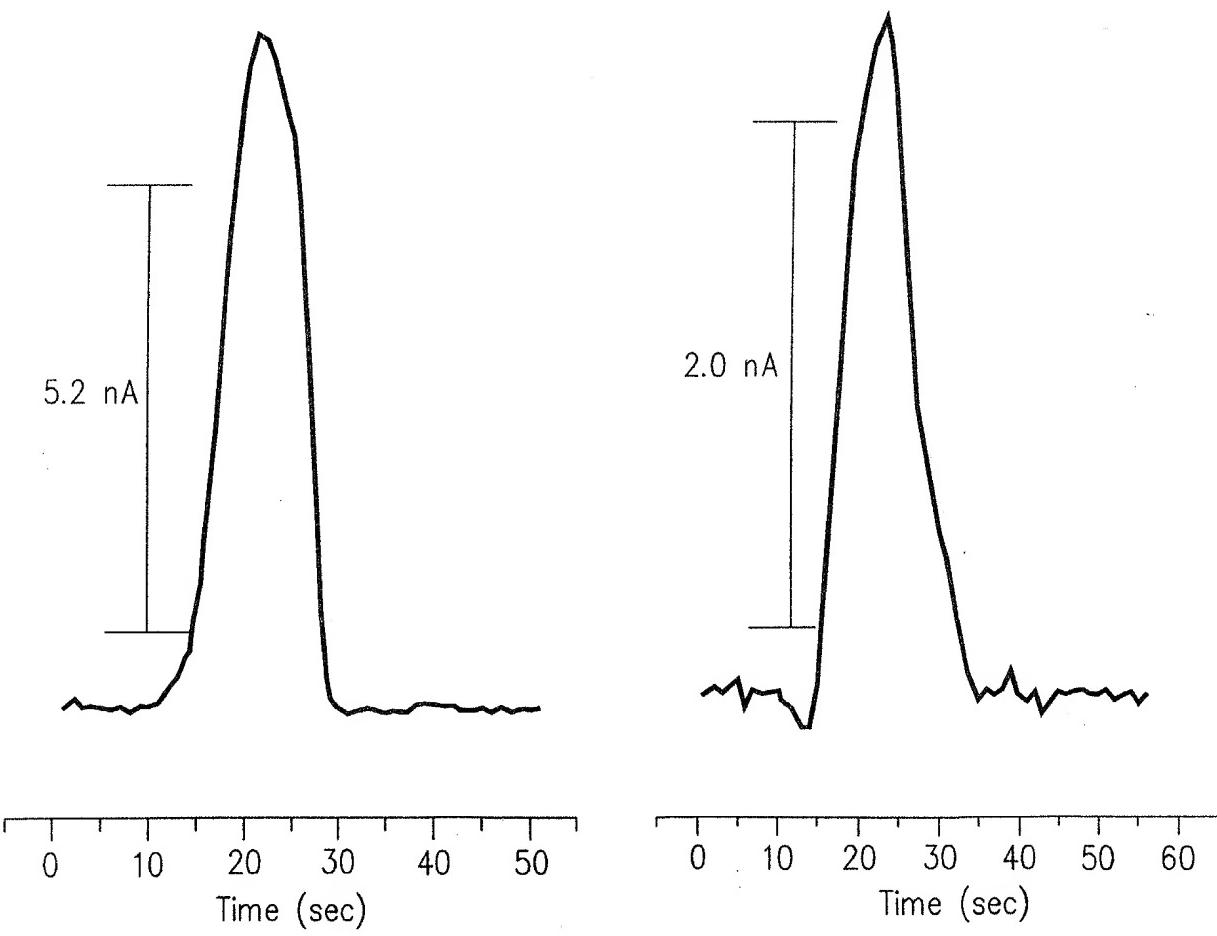


FIG. 16A

FIG. 16B